

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)
NAME	: Mr. PUNEET JAGGI			
AGE/ GENDER	: 48 YRS/MALE		PATIENT ID	: 1674347
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012411170022
REFERRED BY	:		REGISTRATION DATE	: 17/Nov/2024 10:58 AM
BARCODE NO.	:01520965		COLLECTION DATE	: 17/Nov/2024 11:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 17/Nov/2024 11:22AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CWA CT	UVA W/ET	LINESS PANEL: 1.5	
		LELE BLC	OOD COUNT (CBC)	
	(RBCS) COUNT AND INDICES	a a sT	am /dI	12.0 - 17.0
HAEMOGLOBIN (HB by CALORIMETRIC)	11.5 ^L	gm/dL	12.0 - 17.0
RED BLOOD CELL (R	BC) COUNT CUSING, ELECTRICAL IMPEDENCE	4.61	Millions/	cmm 3.50 - 5.00
PACKED CELL VOLU		36.9 ^L	%	40.0 - 54.0
MEAN CORPUSCULA	R VOLUME (MCV)	80.2	fL	80.0 - 100.0
MEAN CORPUSCULA	TOMATED HEMATOLOGY ANALYZER R HAEMOGLOBIN (MCH) TOMATED HEMATOLOGY ANALYZER	24.9 ^L	pg	27.0 - 34.0
MEAN CORPUSCULA	R HEMOGLOBIN CONC. (MCHC) TOMATED HEMATOLOGY ANALYZER	31 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIBU	TION WIDTH (RDW-CV)	14.8	%	11.00 - 16.00
	TION WIDTH (RDW-SD) TOMATED HEMATOLOGY ANALYZER	44.5	fL	35.0 - 56.0
MENTZERS INDEX		17.4	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDI		25.7	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CEL		10.02		
TOTAL LEUCOCYTE	COUNT (TLC) by sf cube & microscopy	4330	/cmm	4000 - 11000
	OOD CELLS (nRBCS)	NIL		0.00 - 20.00
	F HEMATOLOGY ANALYZER			

KOS Diagnostic Lab (A Unit of KOS Healthcare)





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY) DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)

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	Dr. Vinay Chop MD (Pathology & M Chairman & Consult	icrobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME :	Mr. PUNEET JAGGI			
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Test Name		Value	Unit	Biological Reference interval
DIFFERENTIAL LEUC	OCYTE COUNT (DLC)			
NEUTROPHILS	SF CUBE & MICROSCOPY	60	%	50 - 70
LYMPHOCYTES	SF CUBE & MICROSCOPY	29	%	20 - 40
EOSINOPHILS	SF CUBE & MICROSCOPY	2	%	1 - 6
MONOCYTES		9	%	2 - 12
BASOPHILS	SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOCY	SF CUBE & MICROSCOPY TES (WBC) COUNT			
ABSOLUTE NEUTROP	HIL COUNT SF CUBE & MICROSCOPY	2598	/cmm	2000 - 7500
ABSOLUTE LYMPHOCY		1256	/cmm	800 - 4900
ABSOLUTE EOSINOPH		87	/cmm	40 - 440
ABSOLUTE MONOCYT		390	/cmm	80 - 880
ABSOLUTE BASOPHIL by FLOW CYTOMETRY BY	COUNT SF CUBE & MICROSCOPY	0	/cmm	0 - 110
PLATELETS AND OTH	IER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT (PL by HYDRO DYNAMIC FOC	T) JSING, ELECTRICAL IMPEDENCE	156000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCU	JSING, ELECTRICAL IMPEDENCE	0.25	%	0.10 - 0.36
MEAN PLATELET VOL		16 ^H	fL	6.50 - 12.0
PLATELET LARGE CEI		103000 ^H	/cmm	30000 - 90000
PLATELET LARGE CEI		66.1 ^H	%	11.0 - 45.0
PLATELET DISTRIBUT		16.2	%	15.0 - 17.0

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)









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Test Name	Value	Unit	Biological Reference interval



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MD (Pathology 8	k Microbiology)		Pathology)
: Mr. PUNEET JAGGI			
: 48 YRS/MALE	PATIEN	NT ID	: 1674347
: SURJESH	REG. N	0./LAB NO.	:012411170022
:	REGIST	RATION DATE	: 17/Nov/2024 10:58 AM
: 01520965	COLLE	CTION DATE	: 17/Nov/2024 11:09AM
			: 17/Nov/2024 02:16PM
	Value	Unit	Biological Reference interval
GLY	COSYLATED HAEMOG	LOBIN (HBA1C)	
AOGLOBIN (HbA1c):	5.7	%	4.0 - 6.4
E PLASMA GLUCOSE ANCE LIQUID CHROMATOGRAPHY)	116.89	mg/dL	60.00 - 140.00
AS PER AMERICAN DIAL	RETES ASSOCIATION (ADA)		
ERENCE GROUP		MOGLOGIB (HBAIC) in	%
etic Adults >= 18 years		<5.7	
isk (Prediabetes)			
nosing Diabetes			
	Goals of Therapy:	< 7.0	
goals for glycemic control	Actions Suggested:	>8.0	
i	MD (Pathology & Chairman & Con : Mr. PUNEET JAGGI : 48 YRS/MALE : SURJESH : : 01520965 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, GLY MOGLOBIN (HbA1c): ANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE ANCE LIQUID CHROMATOGRAPHY) C PLASMA GLUCOSE ANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAI ERENCE GROUP etic Adults >= 18 years isk (Prediabetes)	: Mr. PUNEET JAGGI : 48 YRS/MALE PATIEN : SURJESH REG. NO : SURJESH REGIST : 01520965 COLLEG : KOS DIAGNOSTIC LAB REPOR : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Value CARCOSYLATED HAEMOG MOGLOBIN (HbA1c): 5.7 ANCE LIQUID CHROMATOGRAPHY) : PLASMA GLUCOSE 116.89 ANCE LIQUID CHROMATOGRAPHY) : SIL AS PER AMERICAN DIABETES ASSOCIATION (ADA): TERENCE GROUP GLYCOSYLATED HE tic Adults >= 18 years isk (Prediabetes) 5 inosing Diabetes [5]	MD (Pathology & Microbiology) Chairman & Consultant Pathologist MD (CEO & Consultant I CEO & Consultant I CEO & Consultant I : Mr. PUNEET JAGGI : : 48 YRS/MALE PATIENT ID : SURJESH REG. NO./LAB NO. : REGISTRATION DATE : 01520965 COLLECTION DATE : KOS DIAGNOSTIC LAB REPORTING DATE : 6349/1, NICHOLSON ROAD, AMBALA CANTT MOGLOBIN (HbA1c): 5.7 : 5.7 MACE LIQUID CHROMATOGRAPHY) : PLASMA GLUCOSE ance LIQUID CHROMATOGRAPHY) : PLASMA GLUCOSE ance LIQUID CHROMATOGRAPHY) : SPER AMERICAN DIABETES ASSOCIATION (ADA): ERENCE GROUP GLYCOSYLATED HEMOGLOGIB (HBAIC) in etic Adults >= 18 years : S.7 - 6.4 inosing Diabetes) 5.7 - 6.4 inosing Diabetes

COMMENTS:

1. Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients.

2.Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate. 4. High

HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications 5. Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7.Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.





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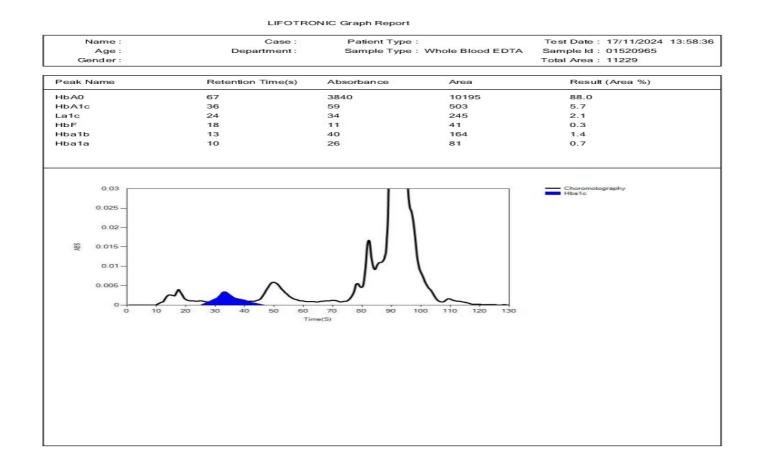
KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 care@koshealthcare.com www.koshealthcare.com







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	REG. NO./LAB NO.	040444470000
NAME : Mr. PUNEET JAGGI	PATIENT ID	: 1674347
		Chopra (Pathology) Pathologist







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LIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 17/Nov/2024 11:49AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Fest Name		Value	Unit	Biological Reference interval
systemic lupus eryth CONDITION WITH LO' A low ESR can be see polycythaemia), sigr is sickle cells in sickl NOTE: I. ESR and C - reactiv 2. Generally, ESR doe 3. CRP is not affected	be used to monitor disease ac ematosus W ESR en with conditions that inhibit	the normal sedimer I count (leucocytosi e ESR. kers of inflammatior es CRP, either at the ESR, making it a be	ntation of red blood cells, s s) , and some protein abno n. start of inflammation or a tter marker of inflammatio	above diseases as well as some others, such as such as a high red blood cell count ormalities. Some changes in red cell shape (such as it resolves. n .
Women tend to ha Drugs such as dext	ive a higher ESR, and menstrua	ation and pregnancy	can cause temporary eleva	ations. /Iline, and vitamin A can increase ESR, while





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Test Name		Value	Unit	Biological Reference interval
	CLINI		FRY/BIOCHEMIST FASTING (F)	'nY
GLUCOSE FASTING	G (F): PLASMA SE - PEROXIDASE (GOD-POD)	92.88	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES: 1. A fasting plasma glucose level below 100 mg/dl is considered normal. 2. A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients. 3. A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.





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GE/ GENDER: 4COLLECTED BY: 5CEFERRED BY:CARCODE NO.: 0CLIENT CODE.: 1	fr. PUNEET JAGGI 8 YRS/MALE URJESH 1520965 30S DIAGNOSTIC LAB 349/1, NICHOLSON ROAD, .	H F C F	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE Unit	: 1674347 : 012411170022 : 17/Nov/2024 10:58 AM : 17/Nov/2024 11:09AM : 17/Nov/2024 12:48PM Biological Reference interval
COLLECTED BY : S CEFERRED BY : CARCODE NO. : C CLIENT CODE. : F ClIENT ADDRESS : C Cest Name : C	URJESH 1520965 COS DIAGNOSTIC LAB	H G AMBALA CANTT	REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 012411170022 : 17/Nov/2024 10:58 AM : 17/Nov/2024 11:09AM : 17/Nov/2024 12:48PM
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LIENT ADDRESS : 6		AMBALA CANTT		
Fest Name	349/1, NICHOLSON ROAD, .		Unit	Biological Reference interval
		Value	Unit	Biological Reference interval
YHOI ESTEROL TOTAL				0
ΉΟΙ ΕΣΤΈΡΟΙ ΤΟΤΛΙ			FILE : BASIC	
	SFRUM	178.15	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OXIDAS		170.15	ling/ uL	BORDERLINE HIGH: 200.0 -
				HIGH CHOLESTEROL: > OR = 240.0
RIGLYCERIDES: SERU	Μ	251.08 ^H	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSPHAT	E OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 -
				199.0 HIGH: 200.0 - 499.0
				VERY HIGH: $> OR = 500.0$
IDL CHOLESTEROL (D by SELECTIVE INHIBITION	IRECT): SERUM	30.68	mg/dL	LOW HDL: < 30.0
by SEECTIVE INHIBITION				BORDERLINE HIGH HDL: 30.0 60.0
				HIGH HDL: $> OR = 60.0$
DL CHOLESTEROL: SI		97.25	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.
by CALCOLATED, STECTIN	or no rome net			BORDERLINE HIGH: 130.0 -
				159.0
				HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
ION HDL CHOLESTER	OL: SERUM	147.47 ^H	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPECTR	OPHOTOMETRY			ABOVE OPTIMAL: 130.0 - 159.
				BORDERLINE HIGH: 160.0 - 189.0
				HIGH: 190.0 - 219.0
LDL CHOLESTEROL: S	EDIM	KO COU	ma / dl	VERY HIGH: > OR = 220.0 0.00 - 45.00
by CALCULATED, SPECTR		50.22 ^H	mg/dL	0.00 - 43.00
OTAL LIPIDS: SERUM by CALCULATED, SPECTR		607.38	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL R		5.81 ^H	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPECTR		0.01		AVERAGE RISK: 4.50 - 7.0
				MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0

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Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		3.17 ^H	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	IDL RATIO: SERUM	8.18 ^H	RATIO	3.00 - 5.00

INTERPRETATION:

1. Measurements in the same patient can show physiological analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.

2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

 Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues.
 NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement





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Test Name		Value	Unit	Biological Reference interval
		FUNCTION 0.44 0.11	N TEST (COMPLETE) mg/dL mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20 0.00 - 0.40
	SPECTROPHOTOMETRY	0.11	nig/ uL	0.00 - 0.40
	ECT (UNCONJUGATED): SERUM	0.33	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	[/RIDOXAL PHOSPHATE	25.8	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	[/RIDOXAL PHOSPHATE	26	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE	ERUM ECTROPHOTOMETRY	0.99	RATIO	0.00 - 46.00
ALKALINE PHOSPI by para nitrophen propanol	HATASE: SERUM IYL PHOSPHATASE BY AMINO METHYL	108.57	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUM PHTOMETRY	46.91	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		7.07	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.15	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE	I ECTROPHOTOMETRY	2.92	gm/dL	2.30 - 3.50
A : G RATIO: SERU		1.42	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range.

USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

> 2
> 2 (Highly Suggestive)
1.4 - 2.0
> 1.5
> 1.3 (Slightly Increased)





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INTERPRETATION





	Dr. Vinay Chopra MD (Pathology & Microbiolog Chairman & Consultant Patho		(Pathology)
NAME	: Mr. PUNEET JAGGI		
AGE/ GENDER	: 48 YRS/MALE	PATIENT ID	: 1674347
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012411170022
REFERRED BY	:	REGISTRATION DATE	: 17/Nov/2024 10:58 AM
BARCODE NO.	: 01520965	COLLECTION DATE	: 17/Nov/2024 11:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 17/Nov/2024 12:48PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CA	NTT	
Test Name	Value	y Unit	Biological Reference interval

DECREASED:

1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)

2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased).

NORMAL	< 0.65
GOOD PROGNOSTIC SIGN	0.3 - 0.6
POOR PROGNOSTIC SIGN	1.2 - 1.6



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	Dr. Vinay Cho MD (Pathology & M Chairman & Consu	1icrobiology)	Dr. Yugam MD (CEO & Consultant	Pathology)
NAME	: Mr. PUNEET JAGGI			
AGE/ GENDER	: 48 YRS/MALE	PATI	ENT ID	: 1674347
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Test Name		Value	Unit	Biological Reference interva
	KIDNE	EY FUNCTION TH	ST (COMPLETE)	
UREA: SERUM		19.74	mg/dL	10.00 - 50.00
by UREASE - GLUTAN CREATININE: SERI	IATE DEHYDROGENASE (GLDH)	0.86	mg/dL	0.40 - 1.40
by ENZYMATIC, SPEC		0.80	ilig/ uL	0.40 - 1.40
	ROGEN (BUN): SERUM	9.22	mg/dL	7.0 - 25.0
by CALCULATED, SPE BLOOD UREA NITE	ROGEN (BUN)/CREATININE	10.72	RATIO	10.0 - 20.0
RATIO: SERUM				
by CALCULATED, SPE UREA/CREATININ	ECTROPHOTOMETRY E DATIO: SEDUM	22.95	RATIO	
	ECTROPHOTOMETRY	22.95	KATIO	
URIC ACID: SERUM		4.85	mg/dL	3.60 - 7.70
by URICASE - OXIDAS CALCIUM: SERUM	SE PERUXIDASE	9.73	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE			-	
PHOSPHOROUS: SE	ERUM DATE, SPECTROPHOTOMETRY	3.37	mg/dL	2.30 - 4.70
ELECTROLYTES	sine, or contor nor ower in			
SODIUM: SERUM		143.1	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV		4.69		
POTASSIUM: SERU by ISE (ION SELECTIV		4.62	mmol/L	3.50 - 5.00
CHLORIDE: SERUM	1	107.32	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV FSTIMATED CI ON	'E ELECTRODE) IERULAR FILTERATION RATE			
	ERULAR FILTERATION RATE	106.8		
(eGFR): SERUM	LINULAN FILTENATION NATE	100.0		
by CALCULATED				
INTERPRETATION: To differentiate betw	een pre- and post renal azotemia.			

To differentiate between pre- and post renal azotemia.

INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.

2. Catabolic states with increased tissue breakdown.

3. GI haemorrhage.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	М	Pr. Vinay Chopra D (Pathology & Micro hairman & Consultant		Dr. Yuga M CEO & Consult	am Chopra ID (Pathology) ant Pathologist
IAME	: Mr. PUNEET J	AGGI			
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LIENT ADDRESS	: 6349/1, NICH	OLSON ROAD, AMBA	LA CANTT		
Fest Name			Value	Unit	Biological Reference interva
	superimposed on		an creatinine) (e	.g. obstructive urc	pathy).
DECREASED RATIO (< Acute tubular necr Low protein diet al Severe liver diseas Conter causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Rhabdomyolysis (r Rhabdomyolysis (r Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido should produce an in CED STAGE	10:1) WITH DECREA rosis. Ind starvation. e. ccreased urea synt (urea rather than of inappropiate an 10:1) WITH INCREA apy (accelerates cc releases muscle cr who develop rena bis (acetoacetate icreased BUN/crea rapy (interferes wi JLAR FILTERATION	renal disease. ASED BUN : hesis. creatinine diffuses ou s virtually absent in b tidiuretic harmone) d SED CREATININE: onversion of creatine eatinine). al failure. causes false increase atinine ratio). th creatinine measure RATE: DESCRIPTION	it of extracellular lood). ue to tubular sec to creatinine). in creatinine wit ement). GFR (mL/min	fluid). retion of urea. h certain method	ologies,resulting in normal ratio when dehydra
CKD STAGE CKD STAGE	10:1) WITH DECREA rosis. Ind starvation. e. ecreased urea synt (urea rather than one inonemias (urea in the propiate an 10:1) WITH INCREA apy (accelerates con- releases muscle cru- who develop rena bis (acetoacetate increased BUN/creation JLAR FILTERATION Norm	renal disease. ASED BUN : hesis. creatinine diffuses ou s virtually absent in k tidiuretic harmone) d SED CREATININE: onversion of creatine eatinine). al failure. causes false increase itinine ratio). th creatinine measure RATE: DESCRIPTION nal kidney function	it of extracellular lood). ue to tubular sec to creatinine). in creatinine wit ement).	fluid). retion of urea. h certain method	ologies,resulting in normal ratio when dehydra
ECREASED RATIO (< Acute tubular necr Low protein diet al Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. ECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients VAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin the STIMATED GLOMERI CKD STAGE G1 G2	10:1) WITH DECREA rosis. Ind starvation. e. ecreased urea synt (urea rather than one inonemias (urea in the propiate an 10:1) WITH INCREA apy (accelerates con- releases muscle cru- who develop rena bis (acetoacetate increased BUN/creation JLAR FILTERATION Norm Kidin nor	renal disease. ASED BUN : hesis. creatinine diffuses ou s virtually absent in b tidiuretic harmone) d SED CREATININE: onversion of creatine eatinine). al failure. causes false increase itinine ratio). th creatinine measure RATE: DESCRIPTION tal kidney function ney damage with mal or high GFR	it of extracellular lood). ue to tubular sec to creatinine). in creatinine wit ement). GFR (mL/mir >9(>9(fluid). retion of urea. h certain method	ologies,resulting in normal ratio when dehydra ASSOCIATED FINDINGS No proteinuria
ECREASED RATIO (< Acute tubular necr Low protein diet al Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. ECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients DAPPROPIATE RATIO Diabetic ketoacido nould produce an in Cephalosporin the STIMATED GLOMERI G1 G2 G3a	10:1) WITH DECREA rosis. Ind starvation. e. ecreased urea synt (urea rather than one monemias (urea i of inappropiate an 10:1) WITH INCREA apy (accelerates co releases muscle cr- who develop rena bis (acetoacetate icreased BUN/creation Creation on the second DIAR FILTERATION Norm Kidmonic Milic	renal disease. ASED BUN : ASED BUN : creatinine diffuses ou s virtually absent in b tidiuretic harmone) d SED CREATININE: onversion of creatine eatinine). al failure. causes false increase otinine ratio). th creatinine measure RATE: DESCRIPTION al kidney function ney damage with mal or high GFR decrease in GFR	it of extracellular lood). ue to tubular sec to creatinine). in creatinine wit ement). GFR (mL/mir >9(>9(60 -6	fluid). retion of urea. h certain method	ologies,resulting in normal ratio when dehydra ASSOCIATED FINDINGS No proteinuria Presence of Protein ,
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NAME	: Mr. PUNEET JAGGI		
AGE/ GENDER	: 48 YRS/MALE	PATIENT ID	: 1674347
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Test Name	Value	Unit	Biological Reference interval

COMMENTS:

Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a measure of functioning nephrons of the kidney.
 eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012
 In patients, with eGFR creatinine between 45-59 ml/min/1.73 m2 (G3) and without any marker of Kidney damage, It is recommended to measure of CFD with the commended to measure

3. In patients, with eGFR cleaning between 45-59 minimit 1.73 m2 (G3) and without any marker of Kidney damage, it is recommended to measure eGFR with Cystatin C for confirmation of CKD
4. eGFR category G1 OR G2 does not fulfill the criteria for CKD, in the absence of evidence of Kidney Damage
5. In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure
6. eGFR calculated by Serum Creatinine may be less accurate due to certain factors like Race, Muscle Mass, Diet, Certain Drugs. In such cases, eGFR should be calculated using Serum Cystatin C
7. A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (eg, severe dehydration).

ADVICE:

KDIGO guideline, 2012 recommends Chronic Kidney Disease (CKD) should be classified based on cause, eGFR category and Albuminuria (ACR) category. GFR & ACR category combined together reflect risk of progression and helps Clinician to identify the individual who are progressing at more rapid rate than anticipated



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CLIENT ADDRESS	: 6349/1, NICI	HOLSON ROAD, AM	BALA CANTT		
Test Name			Value	Unit	Biological Reference interval
			IRON	PROFILE	
IRON: SERUM	TROPHOTOMETRY		69.5	µg/dL	59.0 - 158.0
UNSATURATED IR :SERUM			233	μg/dL	150.0 - 336.0
by FERROZINE, SPEC TOTAL IRON BIND :SERUM by SPECTROPHOTOM	ING CAPACITY		302.5	µg/dL	230 - 430
%TRANSFERRIN S by CALCULATED, SPE	ATURATION: S		22.98	%	15.0 - 50.0
TRANSFERRIN: SE by SPECTROPHOTOM	RUM		214.77	mg/dL	200.0 - 350.0
INTERPRETATION:-					
VARIAE		ANEMIA OF CHRO		IRON DEFICIENCY ANEMIA	
SERUM I	RON:	Normal to Re	educed	Reduced	Normal

TOTAL IRON BINDING CAPACITY: Decreased Normal Increased % TRANSFERRIN SATURATION: Decreased Decreased < 12-15 % Normal **SERUM FERRITIN:** Normal to Increased Decreased Normal or Increased

IRON:

1.Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency anemia, anemia of chronic disease and thalassemia syndromes.

It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for iron deficiency anemia, is severely contra-indicated in Thalassemia.
 TOTAL IRON BINDING CAPACITY (TIBC):

1.It is a direct measure of protein transferrin which transports iron from the gut to storage sites in the bone marrow.

% TRANSFERRIN SATURATION:

1. Occurs in idiopathic hemochromatosis and transfusional hemosiderosis where no unsaturated iron binding capacity is available for iron mobilization. Similar condition is seen in congenital deficiency of transferrin.



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	MD (Pat	n ay Chopra hology & Microbiology) in & Consultant Patholog	М	I m Chopra D (Pathology) Int Pathologist
NAME	: Mr. PUNEET JAGGI			
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CLIENT ADDRESS	: 6349/1, NICHOLSON	N ROAD, AMBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
		ENDO	CRINOLOGY	
		THYROID FUN	CTION TEST: TOTAL	
TRIIODOTHYRONI	NE (T3): SERUM	1.016 MMUNOASSAY)	ng/mL	0.35 - 1.93
THYROXINE (T4): S	SERUM IESCENT MICROPARTICLE I	4.76 ^L	µgm/d	L 4.87 - 12.60
	TING HORMONE (TSI		µIU/m	L 0.35 - 5.50
3rd GENERATION, ULT INTERPRETATION:	RASENSITIVE			
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concent	<i>rations</i> . TSH stimulates the p	production and secretion of the	<i>D pm. The variation is of the order of 50%.Hence time of th</i> metabolically active hormones, thyroxine (T4)and ther underproduction (hypothyroidism) or
CLINICAL CONDITION		Т3	T4	TSH
Primary Hypothyroidis		Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroi		mal or Low Normal	Normal or Low Normal	High

LIMITATIONS:-

Primary Hyperthyroidism:

Subclinical Hyperthyroidism:

1. T3 and T4 circulates in reversibly bound form with Thyroid binding globulins (TBG), and to a lesser extent albumin and Thyroid binding Pre Albumin so conditions in which TBG and protein levels alter such as pregnancy, excess estrogens, androgens, anabolic steroids and glucocorticoids may falsely affect the T3 and T4 levels and may cause false thyroid values for thyroid function tests.

Increased

Normal or High Normal

Reduced (at times undetectable)

Reduced

2. Normal levels of T4 can also be seen in Hyperthyroid patients with :T3 Thyrotoxicosis, Decreased binding capacity due to hypoproteinemia or ingestion of certain drugs (e.g.: phenytoin , salicylates).

3. Serum T4 levels in neonates and infants are higher than values in the normal adult , due to the increased concentration of TBG in neonate serum.

4. TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothyroidism, pregnancy, phenytoin therapy.

TRIIODOTH	(RONINE (T3)	THYROX	INE (T4)	THYROID STIMU	LATING HORMONE (TSH)
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (µIU/mL)
0-7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00

Increased

Normal or High Normal





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Test Name	Value	Unit	Biological Reference interval

Test Name			Value	Unit	t	Biological Reference interval
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECON	MMENDATIONS OF TSH L	EVELS DURING PRE	GNANCY (µIU/mL)		
	1st Trimester			0.10 - 2.50		
	2nd Trimester			0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		

INCREASED TSH LEVELS:

1. Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3. Hashimotos thyroiditis

4.DRUGS: Amphetamines, iodine containing agents & dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge

DECREASED TSH LEVELS:

1.Toxic multi-nodular goiter & Thyroiditis.

2. Over replacement of thyroid hormone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.

8.Pregnancy: 1st and 2nd Trimester





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		/ Chopra ogy & Microbiology) & Consultant Pathologist	Dr. Yugam MD (CEO & Consultant	(Pathology)
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Test Name		Value	Unit	Biological Reference interval
		VITAMIN	S	
		/ITAMIN D/25 HYDROX	XY VITAMIN D3	
	DROXY VITAMIN D3): SE escence immunoassay)	RUM 40.2	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
INTERPRETATION:				
	CIENT:	< 20	ng	/mL
DEFI INSUF	CIENT: FICIENT:	< 20 21 - 29	ng	/mL /mL
DEFI INSUF PREFFER INTOX 1.Vitamin D compou	FICIENT: ED RANGE: ICATION: nds are derived from dietar	21 - 29 30 - 100 > 100	ng ng ng /itamin D2), or chol	

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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	Dr. Vinay Ch MD (Pathology & Chairman & Cor		Dr. Yugan MD CEO & Consultant	(Pathology)		
NAME	: Mr. PUNEET JAGGI					
AGE/ GENDER	: 48 YRS/MALE	PATI	ENT ID	: 1674347		
COLLECTED BY	: SURJESH	REG.	NO./LAB NO.	: 012411170022		
REFERRED BY		REGI	STRATION DATE	: 17/Nov/2024 10:58 AM		
BARCODE NO.	: 01520965		ECTION DATE	: 17/Nov/2024 11:09AM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB		RTING DATE	: 17/Nov/2024 12:48PM		
			DRIING DATE	. 17/1NOV/2024 12.40PM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT				
Test Name		Value	Unit	Biological Reference interval		
	SED VITAMIN B12	DECREASED VITAMIN B12				
1.Ingestion of Vitar		1.Pregnancy				
2.Ingestion of Estro			rin, Anti-convulsants	, Colchicine		
3.Ingestion of Vitar		3.Ethanol Iges 4. Contracepti				
4.Hepatocellular in 5.Myeloproliferativ		5.Haemodialy				
6.Uremia		6. Multiple M				
2.In humans, it is ob 3.The body uses its v excreted.	ç	s and requires intrinsic cally, reabsorbing vitam	factor (IF) for absorp n B12 from the ileun	ntion. In and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (eg,		



DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)



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	Dr. Vinay Chopra MD (Pathology & Microbio Chairman & Consultant Par		Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist		
		COLLECTI REPORTI	LAB NO. ATION DATE ON DATE	: 1674347 : 012411170022 : 17/Nov/2024 10:58 AM : 17/Nov/2024 11:09AM : 17/Nov/2024 11:34AM	
Test Name	Val	lue	Unit	Biological Reference interval	
	CLIN URINE ROUTINE	ICAL PATHO & MICROSCOP		ATION	
PHYSICAL EXAMINATION		a michoscor		HION	
QUANTITY RECIEVED by DIP STICK/REFLECTANCE SPECTF COLOUR by DIP STICK/REFLECTANCE SPECTF TRANSPARANCY by DIP STICK/REFLECTANCE SPECTF SPECIFIC GRAVITY by DIP STICK/REFLECTANCE SPECTF CHEMICAL EXAMINATION REACTION by DIP STICK/REFLECTANCE SPECTF PROTEIN by DIP STICK/REFLECTANCE SPECTF SUGAR by DIP STICK/REFLECTANCE SPECTF BILIRUBIN by DIP STICK/REFLECTANCE SPECTF BILIRUBIN by DIP STICK/REFLECTANCE SPECTF NITRITE by DIP STICK/REFLECTANCE SPECTF UROBILINOGEN by DIP STICK/REFLECTANCE SPECTF KETONE BODIES by DIP STICK/REFLECTANCE SPECTF BLOOD by DIP STICK/REFLECTANCE SPECTF	AN ROPHOTOMETRY	ABER YELLOW EAR D1 CIDIC egative egative	ml EU/dL	PALE YELLOW CLEAR 1.002 - 1.030 NEGATIVE (-ve) NEGATIVE (-ve) 5.0 - 7.5 NEGATIVE (-ve) NEGATIVE (-ve) 0.2 - 1.0 NEGATIVE (-ve) NEGATIVE (-ve) NEGATIVE (-ve)	
MICROSCOPIC EXAMINATION RED BLOOD CELLS (RBCs)		EGATIVE (-ve)	/HPF	0 - 3	



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

Dr. Yugam Chopra Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist MD (Pathology) CEO & Consultant Pathologist NAME : Mr. PUNEET JAGGI AGE/ GENDER **PATIENT ID** : 48 YRS/MALE :1674347 **COLLECTED BY** : SURJESH REG. NO./LAB NO. :012411170022 **REFERRED BY REGISTRATION DATE** : : 17/Nov/2024 10:58 AM **COLLECTION DATE BARCODE NO.** :01520965 :17/Nov/2024 11:09AM **CLIENT CODE.** : KOS DIAGNOSTIC LAB **REPORTING DATE** :17/Nov/2024 11:34AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT

Test Name	Value	Unit	Biological Reference interval
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	2-3	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-2	/HPF	ABSENT
CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	ABSENT		ABSENT

** End Of Report ***



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